

Hongtao Yang

List of Publications by Year in descending order

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32
papers

2,329
citations

279798
23
h-index

434195
31
g-index

32
all docs

32
docs citations

32
times ranked

1442
citing authors

#	ARTICLE	IF	CITATIONS
1	Alloying design of biodegradable zinc as promising bone implants for load-bearing applications. <i>Nature Communications</i> , 2020, 11, 401.	12.8	290
2	Evolution of the degradation mechanism of pure zinc stent in the one-year study of rabbit abdominal aorta model. <i>Biomaterials</i> , 2017, 145, 92-105.	11.4	257
3	Design and characterizations of novel biodegradable ternary Zn-based alloys with IIA nutrient alloying elements Mg, Ca and Sr. <i>Materials and Design</i> , 2015, 83, 95-102.	7.0	226
4	In vitro and in vivo studies on zinc-hydroxyapatite composites as novel biodegradable metal matrix composite for orthopedic applications. <i>Acta Biomaterialia</i> , 2018, 71, 200-214.	8.3	197
5	Challenges in the use of zinc and its alloys as biodegradable metals: Perspective from biomechanical compatibility. <i>Acta Biomaterialia</i> , 2019, 97, 23-45.	8.3	170
6	In vitro and in vivo studies of Zn-Mn biodegradable metals designed for orthopedic applications. <i>Acta Biomaterialia</i> , 2020, 108, 358-372.	8.3	117
7	Biodegradable Zn-Sr alloy for bone regeneration in rat femoral condyle defect model: In vitro and in vivo studies. <i>Bioactive Materials</i> , 2021, 6, 1588-1604.	15.6	104
8	Interfacial Zinc Phosphate is the Key to Controlling Biocompatibility of Metallic Zinc Implants. <i>Advanced Science</i> , 2019, 6, 1900112.	11.2	95
9	In Vitro Evaluation of the Feasibility of Commercial Zn Alloys as Biodegradable Metals. <i>Journal of Materials Science and Technology</i> , 2016, 32, 909-918.	10.7	91
10	Biodegradable Zn-Cu alloys show antibacterial activity against MRSA bone infection by inhibiting pathogen adhesion and biofilm formation. <i>Acta Biomaterialia</i> , 2020, 117, 400-417.	8.3	87
11	Enhanced Osseointegration of Zn-Mg Composites by Tuning the Release of Zn Ions with Sacrificial Mg-Rich Anode Design. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 453-467.	5.2	70
12	Comparative Studies on Degradation Behavior of Pure Zinc in Various Simulated Body Fluids. <i>Jom</i> , 2019, 71, 1414-1425.	1.9	56
13	Comparative studies of Tris-HCl, HEPES and NaHCO ₃ /CO ₂ buffer systems on the biodegradation behaviour of pure Zn in NaCl and SBF solutions. <i>Corrosion Science</i> , 2019, 157, 205-219.	6.6	54
14	Peptide-incorporated 3D porous alginate scaffolds with enhanced osteogenesis for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 143, 243-251.	5.0	53
15	Zinc alloy-based bone internal fixation screw with antibacterial and anti-osteolytic properties. <i>Bioactive Materials</i> , 2021, 6, 4607-4624.	15.6	51
16	Serum zinc levels and multiple health outcomes: Implications for zinc-based biomaterials. <i>Bioactive Materials</i> , 2020, 5, 410-422.	15.6	48
17	Zn _{0.8} Li _{0.1} Sr a biodegradable metal with high mechanical strength comparable to pure Ti for the treatment of osteoporotic bone fractures: In vitro and in vivo studies. <i>Biomaterials</i> , 2021, 275, 120905.	11.4	46
18	Photosensitizer Nanodot Eliciting Immunogenicity for Photodynamic Immunologic Therapy of Postoperative Methicillin-Resistant <i>Staphylococcus aureus</i> Infection and Secondary Recurrence. <i>Advanced Materials</i> , 2022, 34, e2107300.	21.0	44

#	ARTICLE	IF	CITATIONS
19	Biodegradable ZnLiCa ternary alloys for critical-sized bone defect regeneration at load-bearing sites: In vitro and in vivo studies. <i>Bioactive Materials</i> , 2021, 6, 3999-4013.	15.6	40
20	High-strength biodegradable zinc alloy implants with antibacterial and osteogenic properties for the treatment of MRSA-induced rat osteomyelitis. <i>Biomaterials</i> , 2022, 287, 121663.	11.4	36
21	Diclofenac Resensitizes Methicillin-Resistant <i>Staphylococcus aureus</i> to β -Lactams and Prevents Implant Infections. <i>Advanced Science</i> , 2021, 8, 2100681.	11.2	29
22	Processing optimization, mechanical properties, corrosion behavior and cytocompatibility of additively manufactured Zn-0.7Li biodegradable metals. <i>Acta Biomaterialia</i> , 2022, 142, 388-401.	8.3	26
23	Zn-0.4Li alloy shows great potential for the fixation and healing of bone fractures at load-bearing sites. <i>Chemical Engineering Journal</i> , 2021, 417, 129317.	12.7	25
24	Multi-Mode Antibacterial Strategies Enabled by Gene Transfection and Immunomodulatory Nanoparticles in 3D-Printed Scaffolds for Synergistic Exogenous and Endogenous Treatment of Infections. <i>Advanced Materials</i> , 2022, 34, e2200096.	21.0	24
25	In vitro and in vivo studies to evaluate the feasibility of Zn-0.1Li and Zn-0.8Mg application in the uterine cavity microenvironment compared to pure zinc. <i>Acta Biomaterialia</i> , 2021, 123, 393-406.	8.3	23
26	A numerical corrosion-fatigue model for biodegradable Mg alloy stents. <i>Acta Biomaterialia</i> , 2019, 97, 671-680.	8.3	21
27	Antibacterial and antibiofilm effects of flufenamic acid against methicillin-resistant <i>Staphylococcus aureus</i> . <i>Pharmacological Research</i> , 2020, 160, 105067.	7.1	15
28	Fluid-induced corrosion behavior of degradable zinc for stent application. <i>Journal of Materials Science and Technology</i> , 2021, 91, 134-147.	10.7	12
29	Felodipine enhances aminoglycosides efficacy against implant infections caused by methicillin-resistant <i>Staphylococcus aureus</i> , persists and biofilms. <i>Bioactive Materials</i> , 2022, 14, 272-289.	15.6	10
30	Asymptotics of a catenoid liquid bridge between two spherical particles with different radii and contact angles. <i>Physics of Fluids</i> , 2019, 31, .	4.0	8
31	Manufacturing of cardiovascular stents. , 2020, , 317-340.		2
32	Spatiotemporal distribution and control measure evaluation of droplets and aerosol clouds in dental procedures. <i>Infection Control and Hospital Epidemiology</i> , 2022, , 1-3.	1.8	2